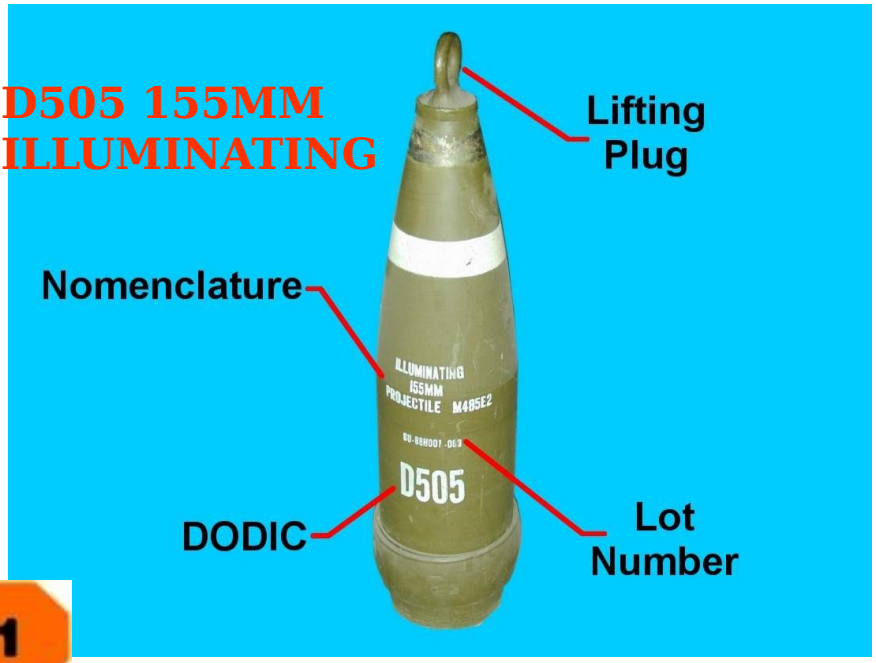
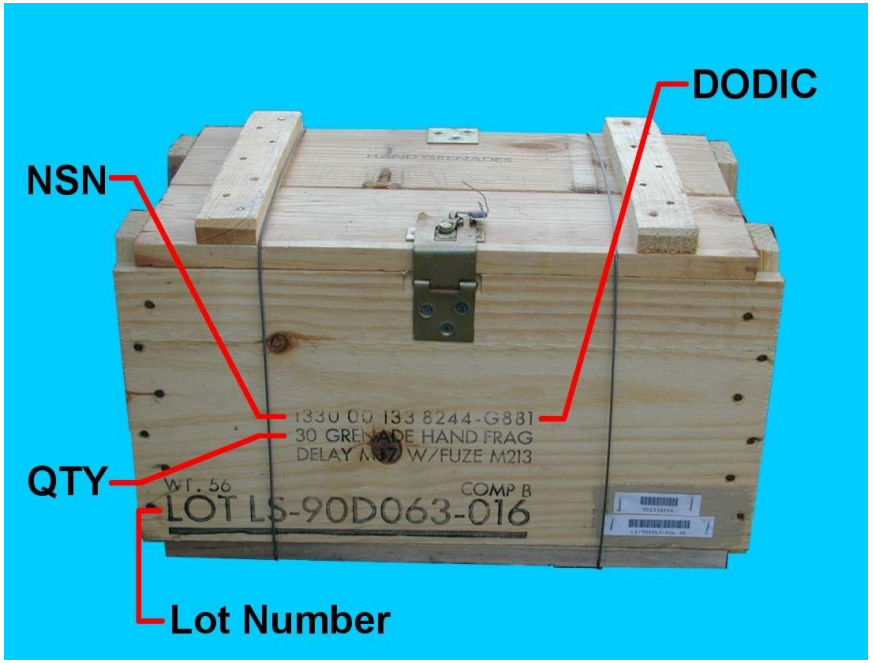
Interpret Munitions Markings
TLO

Action:	Identify selected munitions and packaging containers, interpret and identify munitions markings on boxed and palletized munitions.
Conditions:	Given instruction in a contemporary operating environment (COE), applicable references and practical exercise worksheet.
Standards:	Soldiers must correctly answer seventy percent of all questions contained in the practical exercise.

Interpret Munitions Markings



1



Interpret Munitions Markings

General Ammunition Markings

- **INERT Ammo**
  - explosives, incendiary, or toxic materials have been simulated
- **EMPTY Ammo**
  - explosives, incendiary, or toxics have been omitted
- **Empty projectiles, bombs**
  - 4 ¼ inch holes 90 degrees apart if size permits
  - exceptions are items used in target practice or practice bombs
- **Cloth-covered components**
  - marked with durable, waterproof, sunfast ink
- **Mortar propellant increments**
  - INERT cut through each increment

Interpret Munitions Markings

Markings on Munitions

NEW (MIL-STD 1168-A)

AMC 75 D O18-124 B

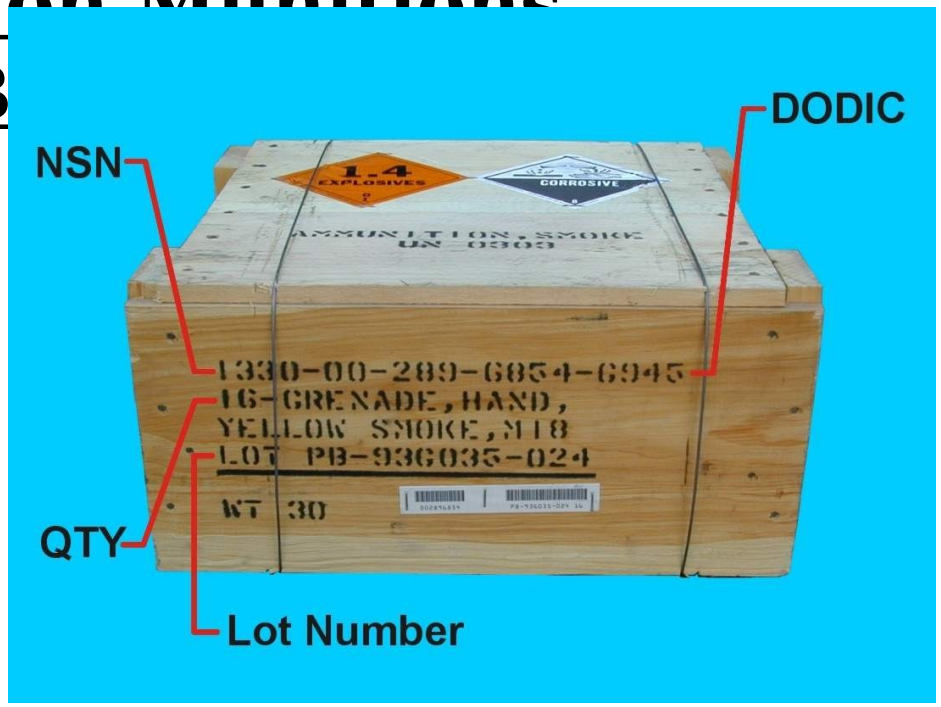
- Ammunition lot suffix (see note)
- Lot sequence number
- Lot interfix number
- A single letter that means the month of production
- A two digit number that means the year of production
- Manufacturer's identification symbol

OLD (MIL-STD 1168)

ABC- 8 -124

- Serial Number
- Interfix Number
- Manufacturer's Identification Symbol

Note: A letter is added to the sequence number when there is a modification through renovation. The first modification is shown by -A, the second by -B, and so on. For example, AMC 75D018-123A, AMC 75D018-123B, etc.



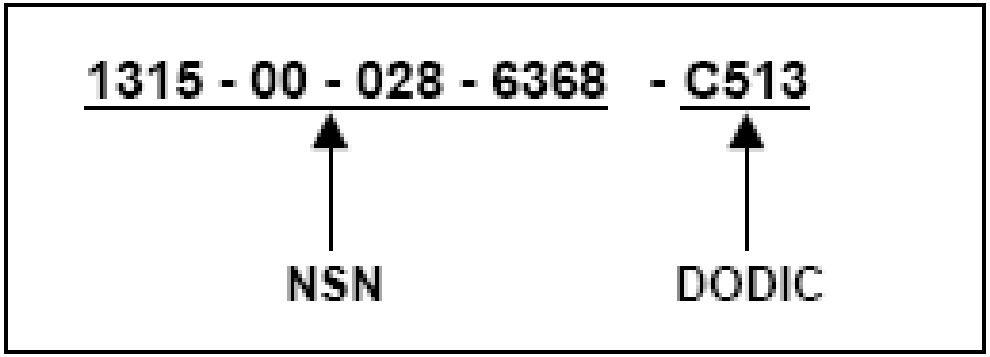
1315 - 00 - 028 - 5080

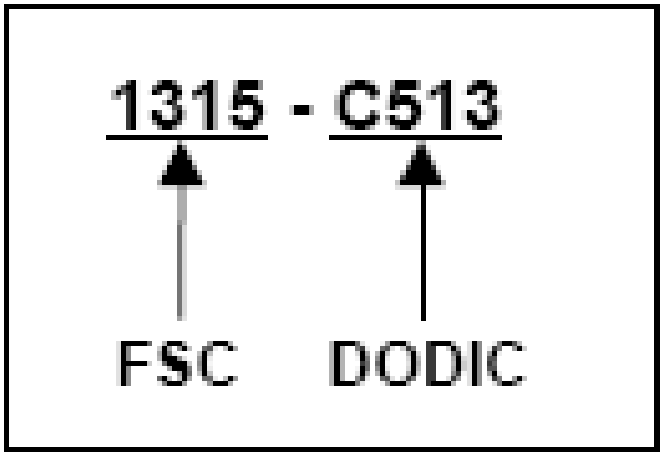
- **Item Number.** This number identifies the item with a particular nomenclature, item name, modifier, model number, and packing method using ammunition supply catalogs, FEDLOG, or microfiche.
- **National Codification Bureau Code.** The next two numbers identify the country of manufacture. Commonly called the country code, it also identifies the country responsible for maintaining the item.
- **Federal Supply Classification.** Thirteen is conventional ammunition Federal Supply Classification Group, and 15 is the specific class.

NIIN

Interpret Munitions Markings

Markings on Munitions Boxes (cont)





Interpret Munitions Markings
Color Coding

Ammunition is painted to prevent rust and to provide by its color a means of identification or camouflage.

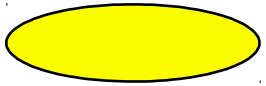
- **Color coding system:**
  - **Indicates primary use**
  - **Indicates a presence of a hazard**

Interpret Munitions Markings
Color Coding (cont)

- **Primary use color coding:**
  - **Applied to entire surface as background color**
  - **Band of color not more than 2 inches wide**
  - **Disks or squares in appropriate color**
  - **Data markings in appropriate color**

Interpret Munitions Markings

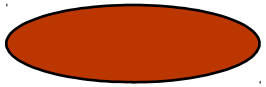
Color Coding (cont)



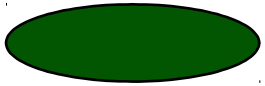
YELLOW -INDICATES HIGH EXPLOSIVE

BROWN -INDICATES LOW EXPLOSIVE

GRAY-INDICATES CHEMICAL AMMUNITION



DARK RED-INDICATES_A RIOT AGENT FILLER



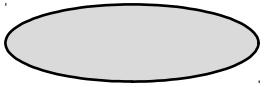
DARK GREEN-INDICATES TOXIC CHEMICAL FILLER

VIOLET-INDICATES INCAPACITATING AGENT FILLER

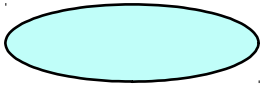
Interpret Munitions Markings

Color Coding (cont)

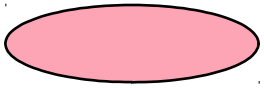
BLACK - INDICATES ARMOR DEFEATING AMMO



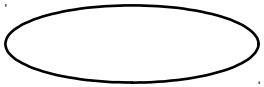
SILVER-INDICATES COUNTERMEASURE AMMO



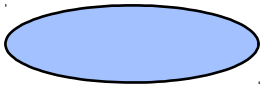
LIGHT GREEN-INDICATES SCREENING AMMO



LIGHT RED-INDICATES INCENDIARY AMMO



WHITE-INDICATES ILLUMINATING AMMO



LIGHT BLUE-INDICATES PRACTICE AMMO

Interpret Munitions Markings

Color Coding Exceptions

Type of Ammunition	Body	Markings	Band
High Explosive, (HE), except 20MM	Olive Drab	Yellow	None
High Explosive, (HE), 20MM	Yellow	Black	None
Explosive Binary Munitions	Olive Drab	Yellow	Broken
High Explosvie Plastic (HEP)	Olive Drab	Yellow	Black
High Explosive Anti-Tank (HEAT)	Black	Yellow	None

Interpret Munitions Markings

Color Coding Exceptions

Type of Ammunition	Body	Markings	Band
Incendiary	Light Red	Black	None
High Explosive Incendiary (HEI)	Yellow	Black	Light Red
Armor Piercing Incendiary (AP-I)	Black	White	Light Red
Armor Piercing (AP) (a) with bursting charge	Black	Yellow	None
(b) without bursting charge	Black	White	None
Canister	Olive Drab	White	

Interpret Munitions Markings
Lot Numbers

NEW MILITARY STANDARD

MANUFACTURERS IDENTIFICATION
Louisiana Ordnance Works

LOW 91B 018-124 B

MODIFICATION #

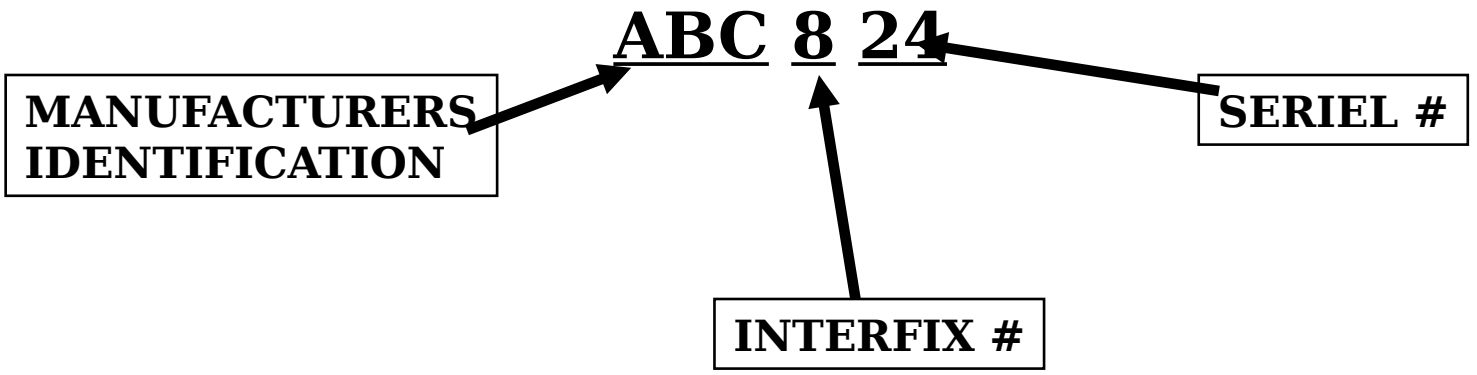
YEAR AND MONTH OF PRODUCTION

INTERFIX #

SEQUENCE #

Interpret Munitions Markings
Lot Numbers (cont)

OLD MILITARY STANDARD



Interpret Munitions Markings

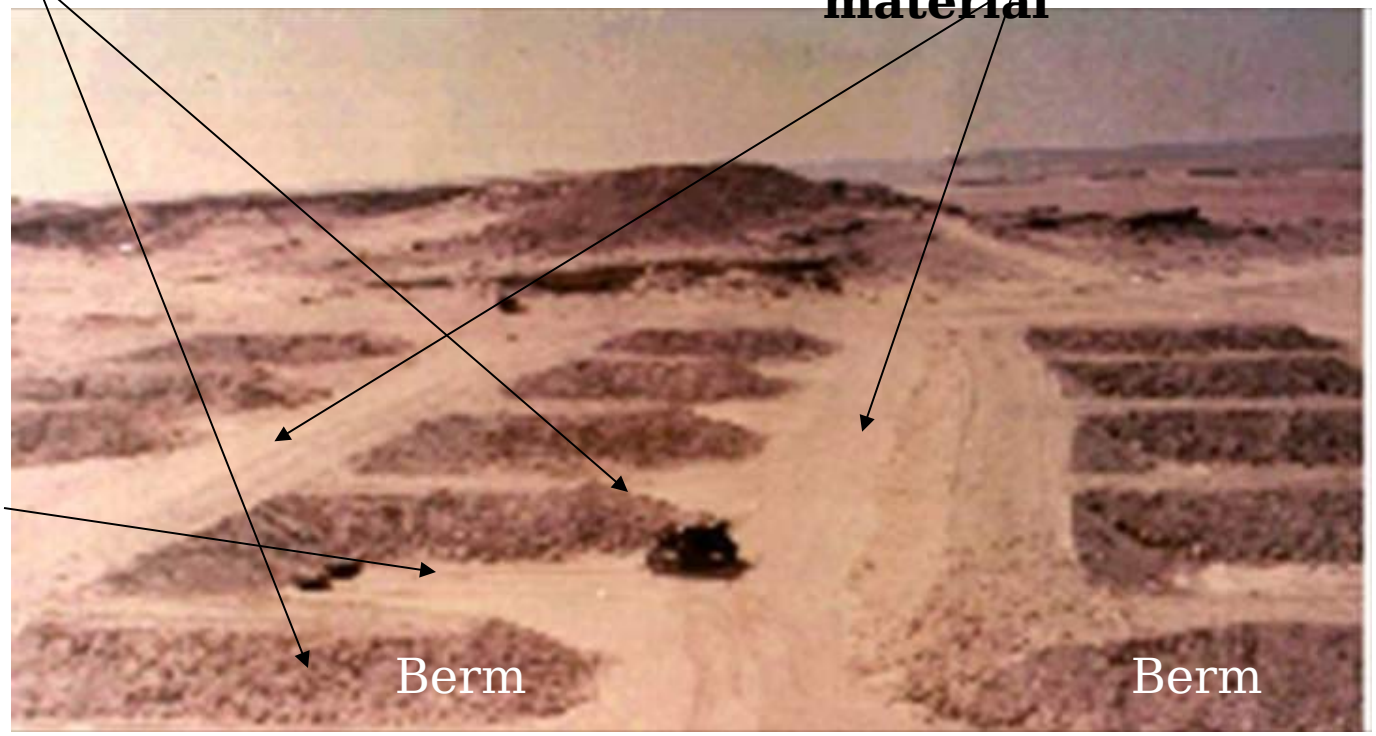
Markings on Actual Munitions

- **Weight zones. On artillery rounds,**
- **Size and type. These numbers tell you the size of the munitions The letter “H” indicates the round is fired from a Howitzer. You may find some with the letter “G” which indicates Gun.**
- **Nomenclature- model number. The last part of the is the abbreviated nomenclature with a model number (Proj M107).**
- **Additional information. This information provides additional data about the item.**
- **Type filler. Immediately below the size is the type filler in the main charge**
- **DODIC. Only the DODIC will appear on separate loading projectiles,**

Outdoor Storage
Ammunition Pad

Drainage

Maintenance of Vegetation & Ignitable material



Level

Outdoor Storage
Propagation

Outdoor Storage
Dunnage

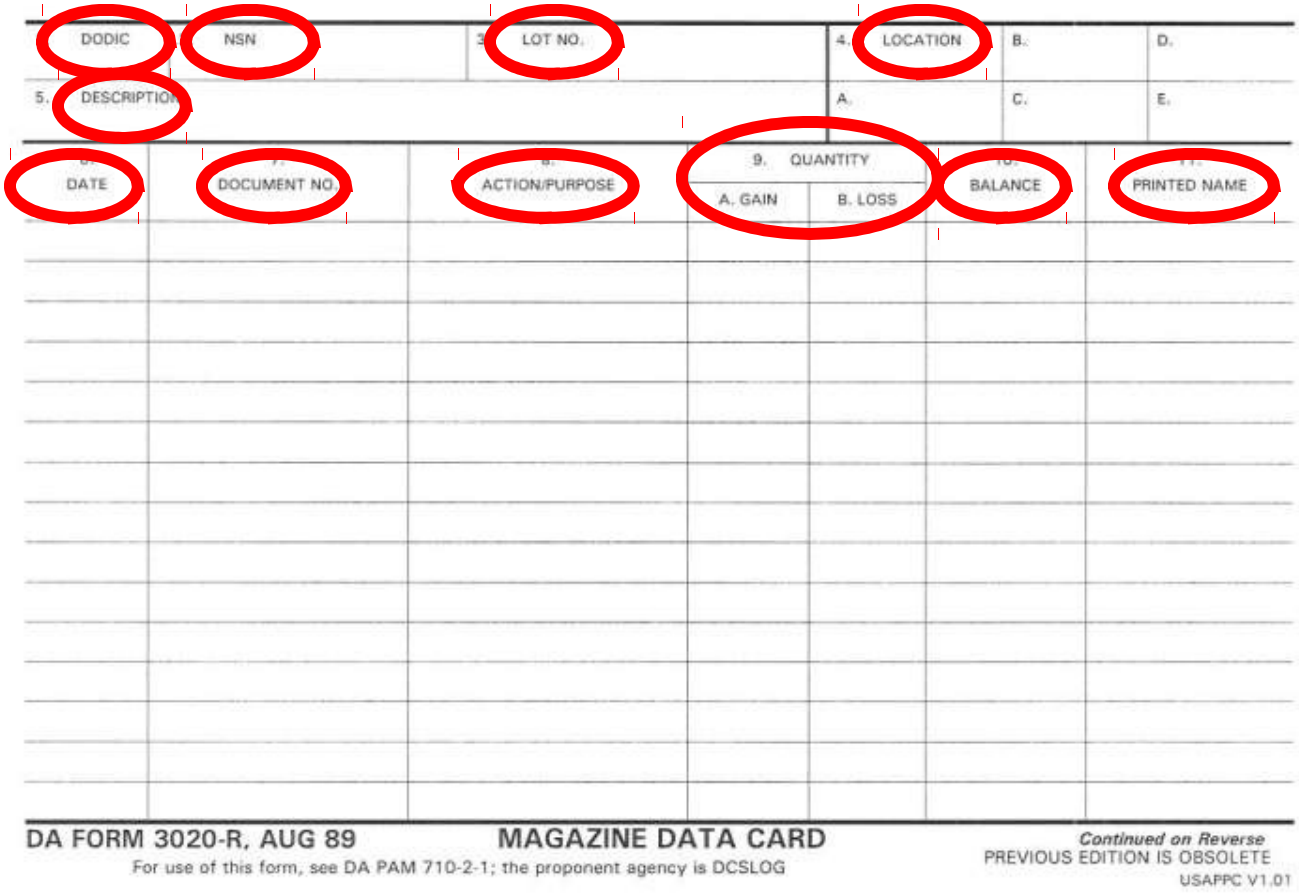
Outdoor Storage
Overhead Cover

1. Fuzes primer and boosters
2. Pyrotechnics
3. Combustible cartridge cases
4. Demolition priming devices
5. Illuminating ammunition/black powder charges
6. Chemical ammunition
7. Rockets
8. Small arms
9. Grenades
10. Mines
11. Demolitions
12. Fixed and semi-fixed ammunition smallest caliber first
13. Separate-loading projectiles
14. Bombs

Outdoor Storage
MILVAN/Container Storage

Outdoor Storage
Housekeeping

Outdoor Storage
Magazine Data Card



DODIC	NSN	3. LOT NO.	4. LOCATION	B.	D.
5. DESCRIPTION			A.	C.	E.

6. DATE	7. DOCUMENT NO.	8. ACTION/PURPOSE	9. QUANTITY A. GAIN	9. QUANTITY B. LOSS	10. BALANCE	11. PRINTED NAME

DA FORM 3020-R, AUG 89 MAGAZINE DATA CARD

Continued on Reverse

For use of this form, see DA PAM 710-2-1; the proponent agency is DCSLOG

PREVIOUS EDITION IS OBSOLETE

USAPPC V1.01

Issue Munitions
TLO

Action:	Issue munitions at an ASA
Conditions:	In a contemporary operating environment (COE), various types of munitions to be stored in an open storage pad, DA Form 3020-R, dunnage, banding equipment and materials, safety clothing and equipment, stencil equipment and materials, packaging containers and materials, DA Form 3151-R, and forklifts.
Standards:	Issue to a using unit the correct type and amount of munitions requested from the designated storage location as indicated on the DA Form 3151-R. Complete and check all documentation for accuracy. Perform this task without causing injury to self, other personnel, or damage to the environment, equipment or munitions.

Issue Munitions
Definition

“Issue of Munitions” is defined as the “Transfer of ammunition stocks from an ammunition storage area.

Issue Munitions
Ammunition
Condition Codes

ACC A–SERVICEABLE (ISSUABLE WITHOUT QUALIFICATION)

E-1. New, used, repaired, or reconditioned materiel that is serviceable and issuable to all units without limitations or restrictions. This includes materiel with more than six months shelf life remaining.

E-2. Normal incidental requirements for additional packaging, packing, marking, and so forth that can be accomplished at the time of issue (without requiring added resources, manpower, or delays) do not constitute a restriction.

ACC B–SERVICEABLE (ISSUABLE WITH QUALIFICATION)

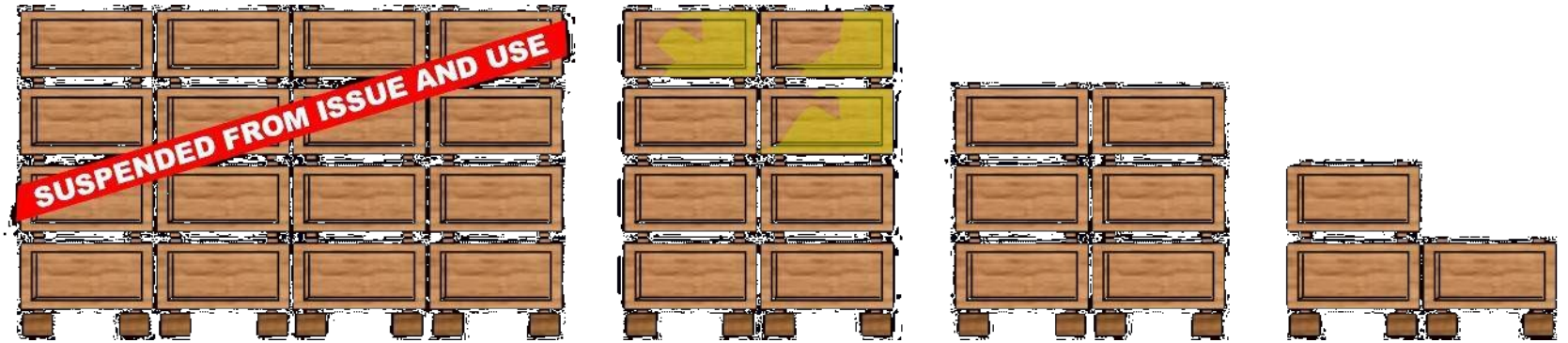
E-3. New, used, repaired, or reconditioned materiel that is serviceable and issuable for its intended purpose; however it is restricted from issue to specific units, activities, or geographical areas by reasons of its limited usefulness or short-service life expectancy. This includes materiel with three through six months shelf life remaining.

E-4. Normal incidental requirements for additional packaging, packing, or marking, and so forth that can be accomplished at the time of issue (without requiring any added resources, manpower, or delays) do not constitute a restriction. This includes items restricted to or from a specific mission.

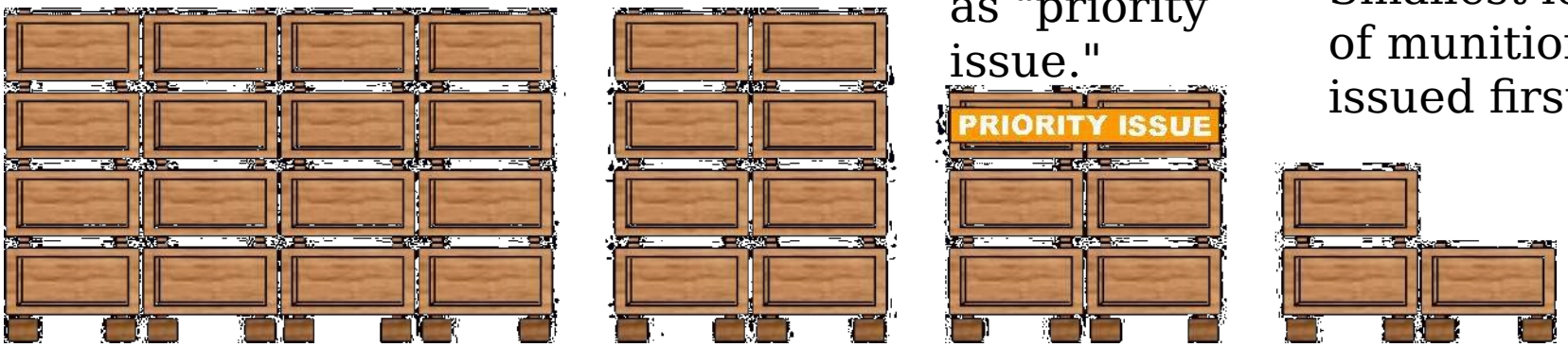
ACC C–SERVICEABLE (PRIORITY OF ISSUE)

E-5. Items that are serviceable and issuable to selected customers, but that must be issued before conditions A and B materiel to avoid loss as usable assets. Includes materiel with less than three months shelf life remaining.

Issue Munitions
Ammunition
Condition Codes
(cont)



Issue Munitions
Priority of Issue



Priority 2. Munitions designated as "priority issue."

Priority 1. Smallest lots of munitions issued first.

Priority 3. Acceptable substitutes from excess stocks. Coordinate approval of substitution with requesting officer.
Priority 4. Oldest munitions of type being issued.
Priority 5. All other stocks.

Issue Munitions Actions When Unit Arrives

1. Vehicles go to the vehicle holding area (VHA).

2. Unit representative takes DA Form 581 to storage point office.

3. Unit vehicles (empty) in the VHA are inspected.

4. Vehicles not meeting standards are rejected, those that meet standards are cleared for entry into the storage point for loading.

Issue Munitions Actions (cont)

Stock Control

1. Review DA Form 581
2. Verifies ammunition condition codes
   *

Issuing Checker

3. Escorts unit vehicles
4. Locates ammunition to be issued
5. Directs loading and tie-down
6. Performs joint inventory

ondition code NOVEMBER may be used in combat

Issue Munitions
Safety

You will have direct contact with the stocks being issued. If there is ever any question as to the serviceability of stocks you are issuing, it is your responsibility to take your suspicions to one of your superiors. Unserviceable ammunition has cost lives before don't let it happen because you failed to make a report.

Issue Munitions
DA Form 581

REQUEST FOR ISSUE AND TURN-IN OF AMMUNITION
For use of this form, see AR 710-2; the proponent agency is DCSLOG

1 Issue X / 2 Turn-in	3 DOCUMENT NO: WK4ABC-9121-0009	4	5 PAGE: 1 OF 1	6 DOCUMENT SERIAL NO: AA581 000 000 047	
7 SEND TO: ASP, Ft Knox, KY	8 REQUEST FROM: 1-505th Arty Bn, Ft Knox, KY, Wxxxxx	9 DATE MATERIEL REQUIRED: 30 May 89, 1400 hrs	10 PRIORITY	11 ALLOCATION PERIOD: Third Quarter	12 DODAAC: WK4ABC
		13a REQUESTED BY: James R. Smith, CPT, IN, S-4	13b DATE: 9121	13c SIGNATURE	
		14a APPROVED BY: James E. Dean, CPT, OD, DAO	14b DATE: 9121	14c SIGNATURE	

15 ITEM	16 DODIC	17 NSN	18 NOMENCLATURE	19 UI	20 QTY REQUESTED/ TURNED IN	21 TEC	22 ACTION CODE	23 QTY. ISSUED/ RECEIVED	24 LOT/SERIAL NO	25 CC	26 POSTED BY	27 DATE
1	A071	1305-00-926-3930	CTG, 5.56mm ball, M193	ea	1,600	FTX	NIS					
2	H557	1349-00-021-4491	Rocket, HE, 66mm AT, M72A2	ea	10	FTX	NIS					
			LAST ITEM									

28 REMARKS
Quantities requested are within authorized training allocation.

Training dates 1-5 Jun 89.

22 RELATED DOCUMENT SERIAL NOS

30a ISSUED BY	30b DATE	31a RECEIVED BY	31b DATE	32 TAMIS CONTROL NO
30b SIGNATURE		31b SIGNATURE		1234567

DA FORM 581, AUG 89 — EDITION OF MAY 84 IS OBSOLETE

Issue Munitions
DA Form 581
(cont)

REQUEST FOR ISSUE AND TURN-IN OF AMMUNITION
For use of this form, see AR 710-2; the proponent agency is DCSLOG

1. Issue
2. Turn-in X

3. DOCUMENT NO: WK4ABC-9158-0001
4.
5. PAGE: 1 OF 1
6. DOCUMENT SERIAL NO: AA581 000 000 054

7. SEND TO: ASP, Ft Knox, Ky
8. REQUEST FROM: 1-505th Arty Bn, Ft Knox, KY, Wxxxxx
9. DATE MATERIEL REQUIRED: 6 Jun 89, 0900 hrs
10. PRIORITY:
11. ALLOCATION PERIOD: Third Quarter
12. DODAAC: WK4ABC
13a. REQUESTED BY: James R. Smith, CPT, IN, S-4
13b. DATE: 9157
13c. SIGNATURE:
14a. APPROVED BY: James E. Dean, CPT, OD, DAO
14b. DATE: 9157
14c. SIGNATURE:

15 ITEM	16 DODIC	17 NSN	18 NOMENCLATURE	19 UI	20 QTY REQUESTED/ TURNED IN	21 TSC	22 ACTION CODE	23 QTY ISSUED/ RECEIVED	24 LOT/SERIAL NO	25 CC	26 POSTED BY	27 DATE
1	A071	1305-00-926-3930	CTG, 5.56mm ball, M193	ea	425	FTX	TAR					
			LAST ITEM									

28. REMARKS
The above items drawn on document number WK4ABC-9121-0009 were not expended.

All other items drawn on that document number were properly expended.

Residue turn-in is under document number WK4ABC-9158-0002.

29. RELATED DOCUMENT SERIAL NOS
AA581 000 000 047
AA581 000 000 055
AA5515 000 000 027
AA5515 000 000 078

30a. ISSUED BY
30b. SIGNATURE
30c. DATE
31a. RECEIVED BY
31b. SIGNATURE
31c. DATE
32. TAMIS CONTROL NO: 1234567

DA FORM 581, AUG 89
EDITION OF MAY 64 IS OBSOLETE

Issue Munitions
DA Form 581
(cont)

REQUEST FOR ISSUE AND TURN-IN OF AMMUNITION

For use of this form, see AR 710-2; the proponent agency is DCSLOG

1 Issue
2 Turn-In x
3 DOCUMENT NO: WK4ABC-9158-0002
4
5 PAGE: 1 OF 1
6 DOCUMENT SERIAL NO: AA581 000 000 055

7 SEND TO: ASP, Ft Knox, KY
8 REQUEST FROM: 1-505th Arty Bn, Ft Knox, KY
9 DATE MATERIEL REQUIRED: 6 Jun 89, 0900 hrs
10 PRIORITY:
11 ALLOCATION PERIOD: Third Quarter
12 DODAAC: WK4ABC
13a REQUESTED BY: James R. Smith, CPT, IN, S-4
13b DATE: 9157
13c SIGNATURE:
14a APPROVED BY: James E. Dean, CPT, OD, DAO
14b DATE: 9157
14c SIGNATURE:

15 ITEM	16 DODIC	17 NSN	18 NOMENCLATURE	19 UI	20 QTY REQUESTED/ TURNED IN	21 TEC	22 ACTION CODE	23 QTY ISSUED/ RECEIVED	24 LOT/SERIAL NO	25 CC	26 POSTED BY	27 DATE
1		NSN	Case ctg, fired brass, 5.56mm	lb	15.9	FTX	TIR					
2		NSN	Launcher, rocket M72A2, expended	ea	10	FTX	TIR					
3		NSN	Primer block, M72A2, expended	ea	10	FTX	TIR					
			LAST ITEM									

28 REMARKS

The above items were drawn on document number WK4ABC-9121-0009 and were properly expended. All other items drawn on that document number are being returned under document number WK4ABC-9158-0001.

Contents have been inspected. Contents do not contain any live rounds, unfired primers, explosives, or other dangerous materiels. Signed (x) _____.

29 RELATED DOCUMENT SERIAL NOS
AA581 000 000 047
AA581 000 000 054
AA5515 000 000 027
AA5515 000 000 078

30a ISSUED BY
30b SIGNATURE
30c DATE
31a RECEIVED BY
31b SIGNATURE
31c DATE
32 TAMIS CONTROL NO: 1234567

DA FORM 581, AUG 89 EDITION OF MAY 64 IS OBSOLETE

Receive Munitions TLO

Action:	Receive shipment of munitions at an Ammunition Supply Activity.
Conditions:	In a contemporary operating environment (COE), and given: packaged or unpackaged munitions, transport vehicles, safety clothing and equipment, packaging materials and containers, tie-down straps, pencil, DA Form 3020-R, DA Pam 710-2-2, MHE, banding equipment and materials, stencil equipment and materials, dunnage, orange paint, applicable munitions drawings, and steel toe shoes.
Standards:	Properly receive, segregate, check for serviceability, inventory, repack, and receipt munitions. Correctly complete, sign, date, and return DA Form 3151-R to stock control. Annotate the quantity received on DA Form 3020-R. Perform this task error free and without causing injury to self, other personnel, damage to the environment or equipment.

Receive Munitions Definitions

“The term, receipt, refers to a shipment of ammunition received from an ASP (Ammunition Supply Point), a CSA (Corps Storage Area), or a TSA (Theater Storage Area), or directly from a port, depot, or manufacturing plant. Receipt must not be confused with unit turn-in.

Receive Munitions

Stocks received by an ammunition supply unit are recorded on stock records, reported to the appropriate DMC, which notifies an ammunition unit in advance of a scheduled incoming shipment.

Unscheduled emergency resupply shipments may arrive at any time.

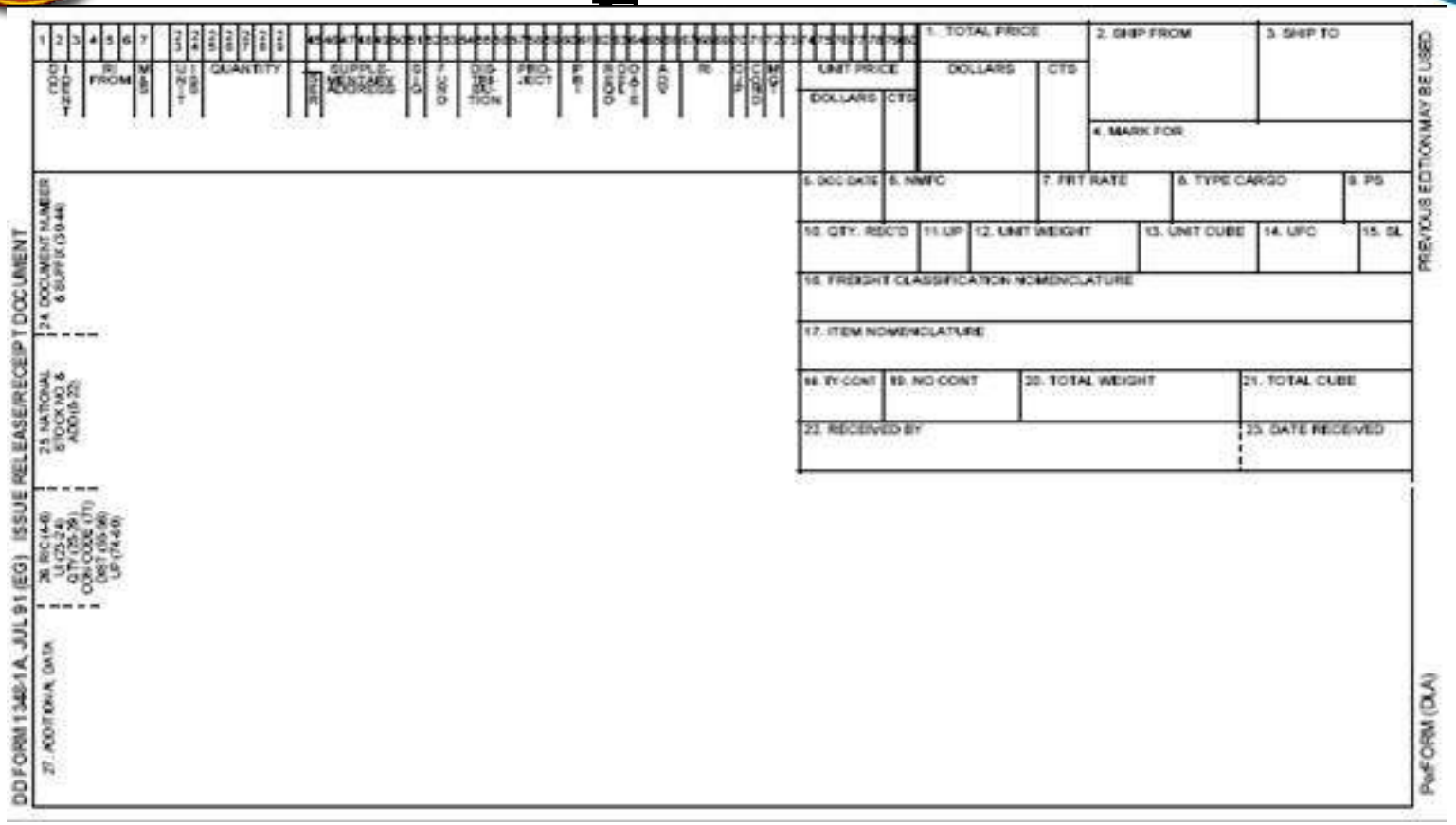
The unit must be in close coordination with the DMC to ensure notification is received.

Once notified, the unit selects storage locations and makes plans to unload and store the ammunition.

Receive Munitions MHE

Conduct a detailed inventory of received ammunition

Receive Munitions



DD Form 1348-1A, Issue Release Document Prepared by the shipper, an accountable document used to complete the shipment

Receive Munitions Forms (cont)

TRANSPORTATION CONTROL AND MOVEMENT DOCUMENT — PAGE NO.

1. DOC ID	2. TRLR CTR	3. CONSIGNOR	4. COMMODITY SPECIAL HANDLING	5. AIR DIM	6. POE			7. POD	
8. MODE	9. PACK	10. TRANSPORTATION CONTROL NO.	11. CONSIGNEE	12. PRI	13. RDD	14. PROJ	15. DATE SHPD	16. ETA	17. TR ACCT
18. CARRIER		19. FLIGHT-TRUCK-VOY-DOC NO.	20. REF 21. REMARKS				22. PIECES	23. WEIGHT	24. CUBE

	a. Transship Point	b. Date Rec	c. Bay Whse	d. Date Shpd	e. Mode Carrier	f. Flight-Truck-Voy Doc No.	g. Ref	h. Stow Loc	i. Split	j. Cond	k. Signature-Remarks
25.											
26.											
27.											

28. CONSIGNEE	29. DATE RECEIVED/OFFERED (Sign)	30. CONDITION	31. REMARKS

32. DOC ID	33. TRAILER - CON-TAINER	34. CONSIGNOR COMM ABBR OTHER	35. COMMODITY SPECIAL HANDLING	36. VOY NO Air Dim a.	36. VOY NO POE b.	37. POD	38. MODE	39. TYPE PACK	40. TRANSPORTATION CONTROL NUMBER	41. CONSIGNEE	42. PRI	43. REMARKS AND/OR RDD a.	Proj b.	Stow Loc Shpd c.	Stow Loc ETA d.	Tac e.	44. ADDITIONAL REMARKS OR Pieces a.	Weight b.	Cube c.

DD FORM 1384, SEP 1998 (EG) PREVIOUS EDITION IS OBSOLETE. USAPAV1.00

DD Form 1384, Issue Release Document Prepared by shipper, provides vital data concerning the shipment. Stays with ammunition during shipment.

Receive Munitions

1. DODIC	2. NSN	3. LOT NO.	4. LOCATION	B.	D.
5. DESCRIPTION			A.	C.	E.

6. DATE	7. DOCUMENT NO.	8. ACTION/PURPOSE	9. QUANTITY		10. BALANCE	11. PRINTED NAME
			A. GAIN	B. LOSS		

DA FORM 3020-R, AUG 89 MAGAZINE DATA CARD

Continued on Reverse

For use of this form, see DA PAM 710-2-1; the proponent agency is DCSLOG

PREVIOUS EDITION IS OBSOLETE

USAPPC V1.01

DA Form 3020-R:Prepared for each lot and stack of ammunition stored during receiving operations

Inventory Munitions
TLO

Action:	Inventory Munitions at an Ammunition Support Activity.
Conditions:	In a contemporary operating environment (COE), a clipboard, pencil, partially prepared DA Form 2000-3 and DA Form 3020-R and munitions items to be inventoried.
Standards:	All munitions must be correctly counted and information recorded on DA Form 2000-3. Student will correctly annotate the inventory on DA Form 3020-R, sign and date as the recorder or counter.

Inventory
Munitions
Why Inventories

- Know exactly how much of each DODIC and lot number you have on hand.
- Know exactly where all your stocks are located at any given moment.
- Know the exact condition code for each lot of ammunition.

Inventory Munitions Types of Inventories

- Scheduled Wall to Wall
- Scheduled Cyclic
- Damaged Warehouse
- Special

Inventory Munitions Inventory Team

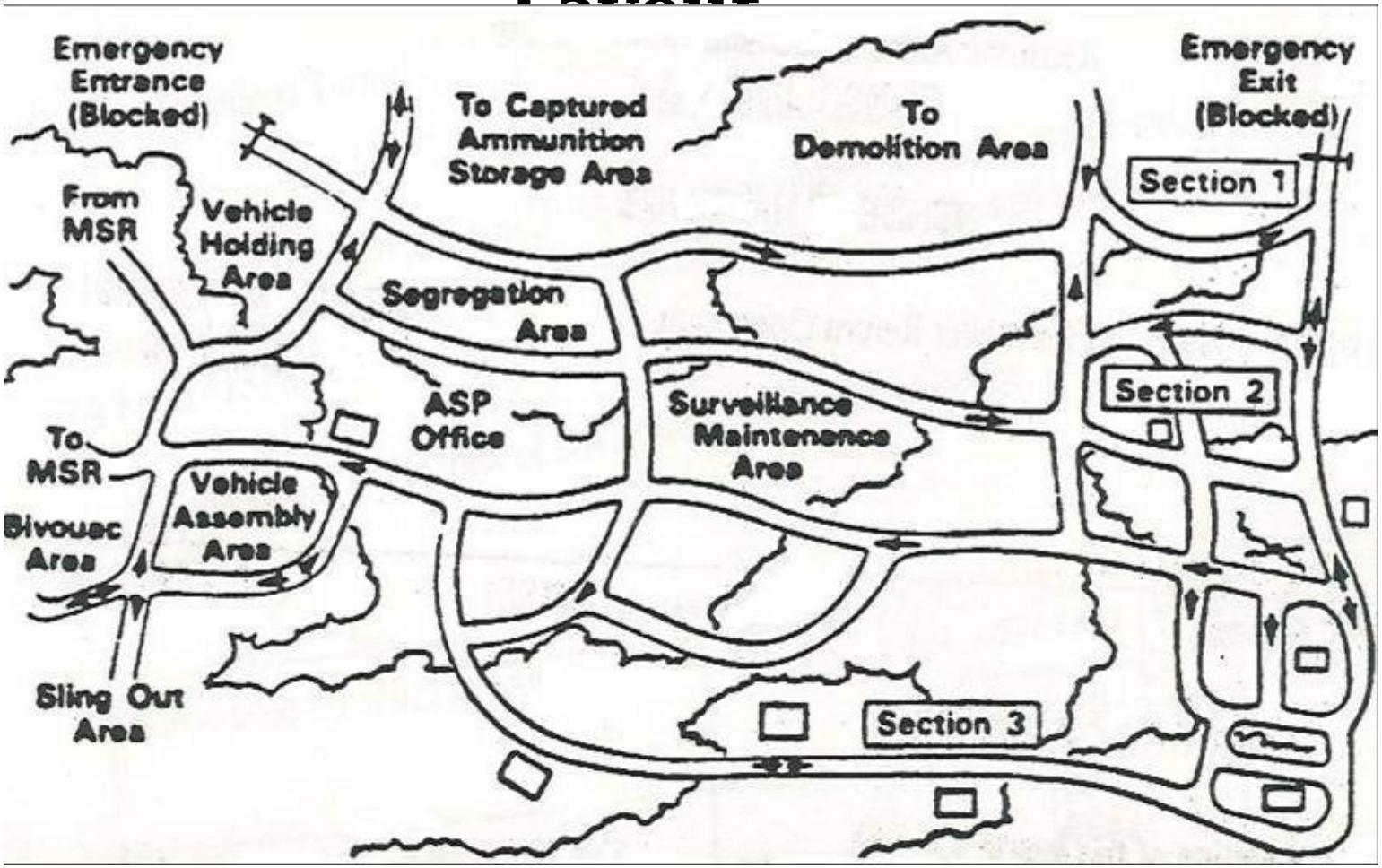
- Counter
  - Counts all ammunition DODIC, NSN, Lot#, Condition Code and Quantity
  - Reports the quantities of pallets, packages and rounds in each package to the Recorder
  - Signs and dates all Count Cards/Sheets
- Recorder
  - Records all count information as the Counter reports it
  - Double checks all count card/sheet data with that on the package being inventoried, to ensure that the correct item is being inventoried
  - Posts the final counts on the Magazine Data Card (DA Form 3020-R) and returns the card to the stack
  - Signs and dates all Count Cards/Sheets
- Inventory Supervisor

Process Unit Returns at an ASA
TLO

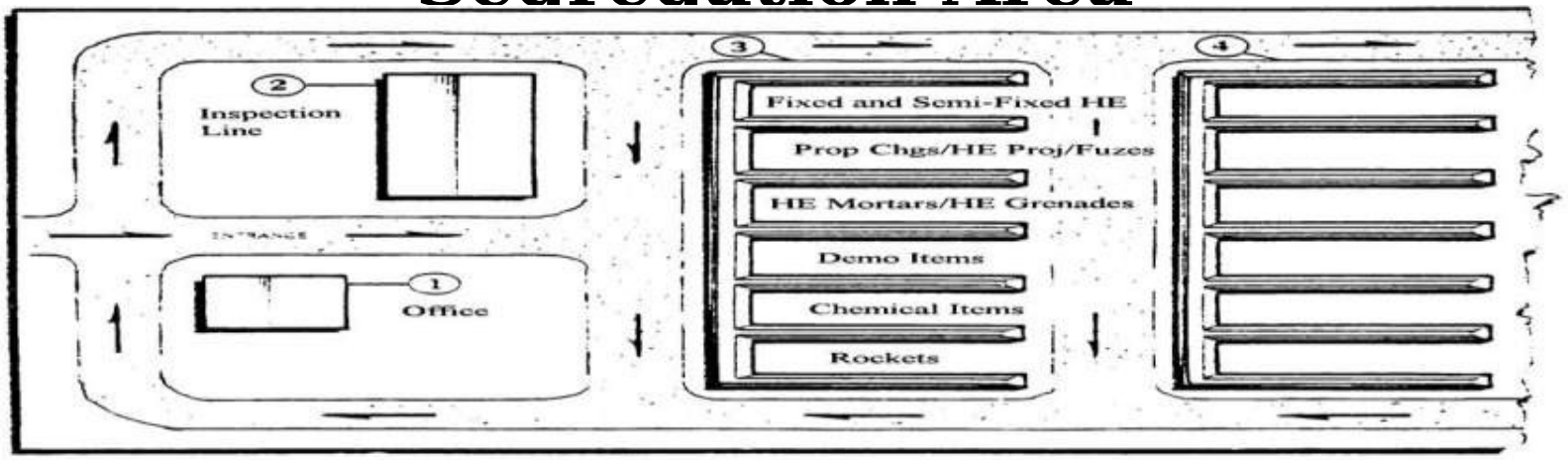
Action:	Process unit returns at an ASA
Conditions:	In a contemporary operating environment (COE), packaged or unpackaged munitions, safety clothing and equipment, packaging containers and materials, tiedown straps, pencil, steel toe shoes, DA Form 3020-R, DA Form 3151-R, appropriate munitions handling equipment (MHE) and materials, banding equipment and materials, stencil equipment and materials, orange paint, and applicable munitions drawings.
Standards:	Properly receive, segregate, check for serviceability, inventory, repack, remark, and account for the unit's ammunition turn in. Correctly complete, sign, date and return DA Form 3151-R to stock control. Annotate the unit's munitions turn in on DA Form 3020-R. Perform this task error free and without causing injury to self, other personnel, damage to the

Process Unit Returns at an ASA

Layout



Process Unit Returns at an ASA Segregation Area



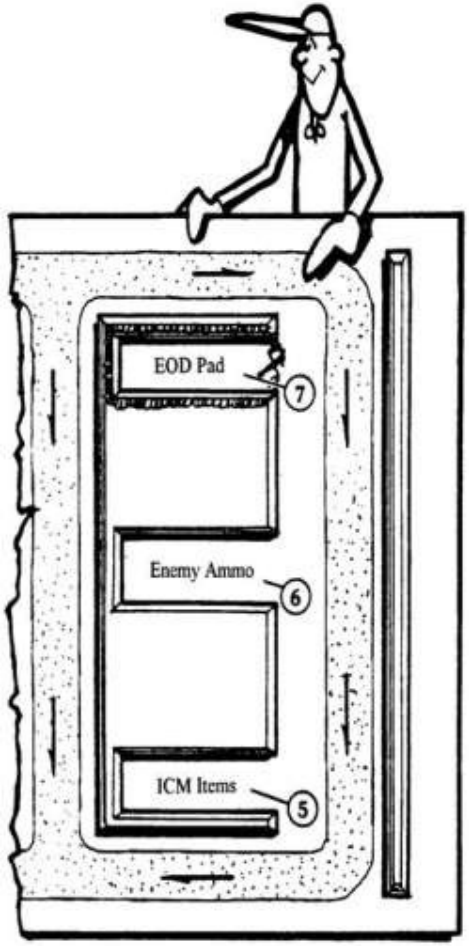
*Office: Processing of records, and reports.

*Inspection Line: Used for the segregation, inspection, and replacing of munitions returned by units.

*Serviceable Storage Module: Barricaded Cells designated for the storage of specific types of munitions. Off-loaded serviceable munitions, place in appropriate pad.

*Unserviceable Storage Module: Barricaded Cells designated for the storage of specific types of munitions. Off-loaded unserviceable munitions, place in appropriate pad.

Process Unit Returns at an ASA
Segregation Area (cont)



*ICM Storage Cell: Improved Conventional Munitions items require separate storage, and be isolated from other types of munitions.

*Enemy Ammo Storage Cell: Combat situations require separate and isolated storage area cell pads.

*EOD Storage Cell: Used for the storage of munitions that have been classified as unsafe or hazardous, pending destruction by authorized personnel. This cell must be fenced and gated, locked and secure to prevent unauthorized personnel from entering.

Process Unit Returns at an ASA

DA 581

REQUEST FOR ISSUE AND TURN-IN OF AMMUNITION

For use of this form, see AR 710-2; the proponent agency is OCSLOG

1 Issue	2 Turn-in X	3 DOCUMENT NO 2134-0019	4	5 PAGE 1 of 1	6 DOCUMENT SERIAL NO AA581 1333762

7 SEND TO	8 REQUEST FROM	9 DATE MATERIEL REQUIRED	10 PRIORITY	11 AMMUNICATION PERIOD	12 CCDA/AC
Accountable Officer ASP #1 WN7BAA/AK4001 APO 09114	WB3JFF/WK4FD4 1st Bn, 16th INF APO 09046				

13a REQUESTED BY	13b DATE	13c SIGNATURE
John T. Jones, CPT, S-4	2134	

14a APPROVED BY	14b DATE	14c SIGNATURE
William D. Carlson CPT, CD, DAO	2134	

15 ITEM	16 DODIC	17 NSN	18 NOMENCLATURE	19 UI	20 QTY REQUESTED/ TURNED IN	21 TEC	22 ACTION CODE	23 QTY ISSUED/ RECEIVED	24 LOT/SERIAL NO.	25 CC	26 POSTED BY	27 DATE
1	A071	1305-00-926-3930	Cartridge, 5.56MM Ball		5040				LC 12205			
2	C256	1315-00-935-6031	Cartridge, 81MM: HE, M374		15				LOP 2-27			
3	G889	1330-00-782-5540	Grenade, Hand, Frag M26A2		36				LS 13-224			
					LAST ITEM							

28 REMARKS

Items listed above are on hand in this organization in excess of training requirements

Issued on Control Number 2130-0002.

29 RELATED DOCUMENT SERIAL NOS

30a ISSUED BY	30c DATE	31a RECEIVED BY	31c DATE	32 TAMMS CONTROL NO
John T. Jones, CPT, INF, S-4	2134			
30b SIGNATURE		31b SIGNATURE		

DA FORM 581, AUG 89 EDITION OF MAY 64 IS OBSOLETE

Process Unit Returns at an ASA
DA 3151-R

AMMUNITION STORES SLIP
FOR USE OF THIS FORM, SEE DA PAMPHLET 710-2-2. PROPONENT AGENCY IS DCSLOG.

AUTHORITY: 7138-0001 — DATE: 18 MAY 87

FROM: S4, 1-505th Arty Bn, Ft Knox, KY — NAME OF ACTIVITY: ASP

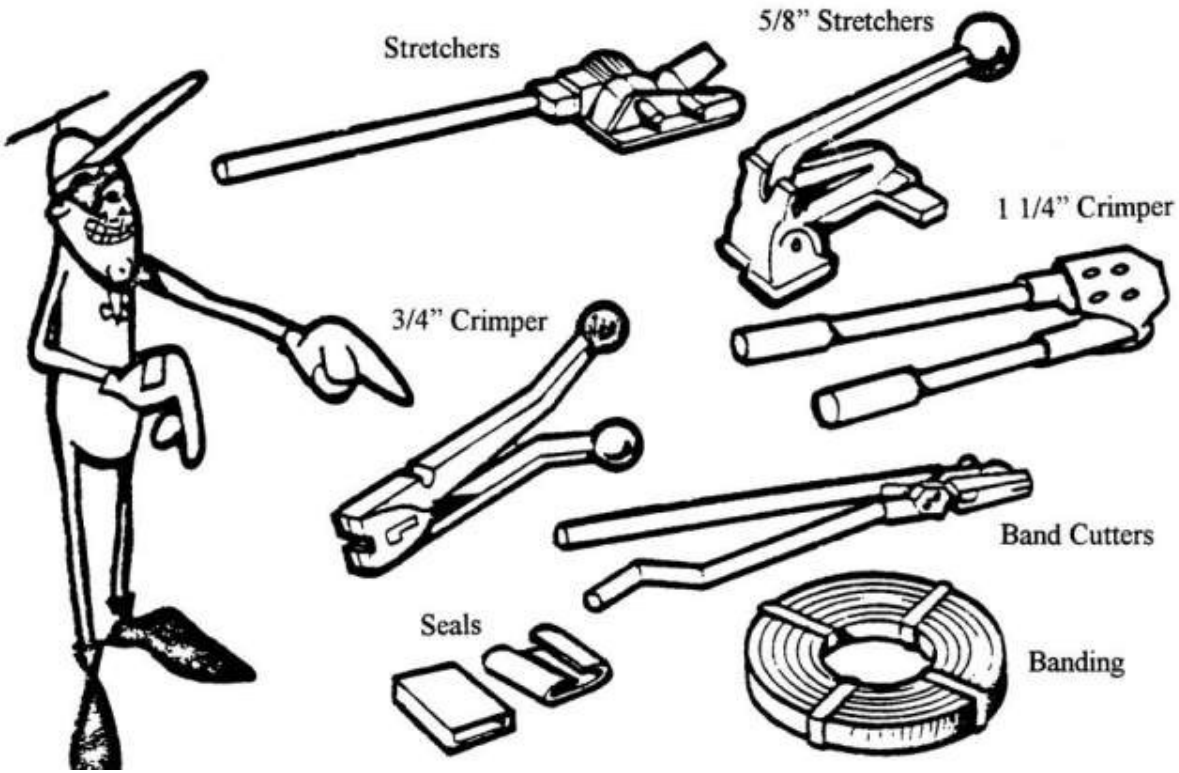
TO: ASP, Ft. Knox, KY — VEHICLE NO.: USA 1234567

RECEIPT [X] ISSUE [ ] OTHER (SPECIFY) [ ] TURN-IN — DRIVER: CPL Jerry Walker

NSN DODIC NOMENCLATURE	LOT NO.	ACC	LOCATION FROM	LOCATION TO	PLTS / BXS	TOTAL ROUNDS	INIT
1305-00-926-3930-A071 Ctg. 5.56mm Ball	LC10-05	A	A-1		2 BX	3,360	
1310-00-724-8081-8568 Ctg, 40mm HE	FN07-13	A	B-1		2 BX	72	
1330-00-133-8244-G881 Gren, Hd, FRAG	FT87-21	A	C-1		1 BX	30	
xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxNOTHING FOLLOWSxxxxxxxxxxxxxxxxxxx

Process Unit Returns at an ASA

Rebanding Tools &



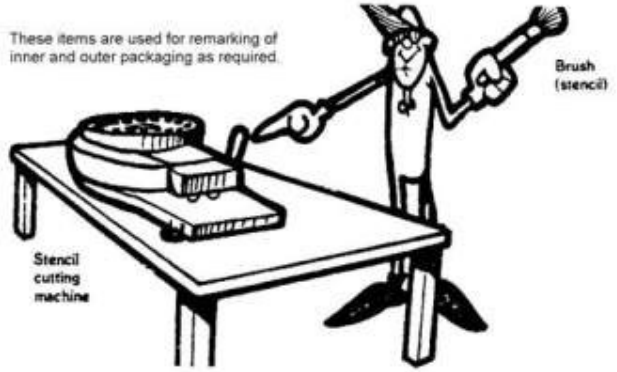
Process Unit Returns at an ASA
Safety Equipment

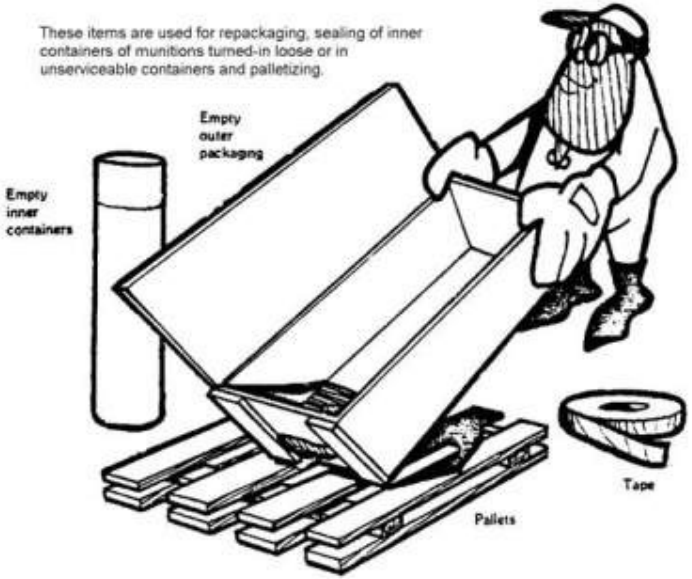
1. Work gloves.

2. Safety toe protectors or steel toed safety shoes.

3. Goggles or face shield.

Process Unit Returns at an ASA
Remarking Tools




These items are used for repackaging, sealing of inner containers of munitions turned-in loose or in unserviceable containers and palletizing.
Empty outer packaging
Empty inner containers
Tape
Pallets

Tools and materials used for remarking outer packing.

1. Stencil Brush.
2. Stencil cutting machine.
3. Stencil paper.
4. Stencil ink/ Spray paint.

Process Unit Returns at an ASA
Hazardous and Incompatible Munitions

- Identify the ammunition.
- Check for loose rounds.
- Check for opened boxes and containers.
  - Inspect for missing safety devices.
  - Identify items in extremely hazardous conditions.
- Check for compatibility of items.
- Check open containers to make sure that items are the same as indicated on the box.
- Open damaged containers and inspect the ammunition for serviceability.
- Make sure marked empty containers are in fact empty.

Process Unit Returns at an ASA

Segregation

1. Serviceability.

2. Type.
   - WP
   - HE

3. Lot number (located on front of box and on each end)

4. National stock number (13 digit number located across the front of box).

5. DODIC (located at end of NSN and on each end of box).

Process Unit Returns at an ASA
Grenades

Safety pin must be inserted through both sides of safety lever and through fuze body

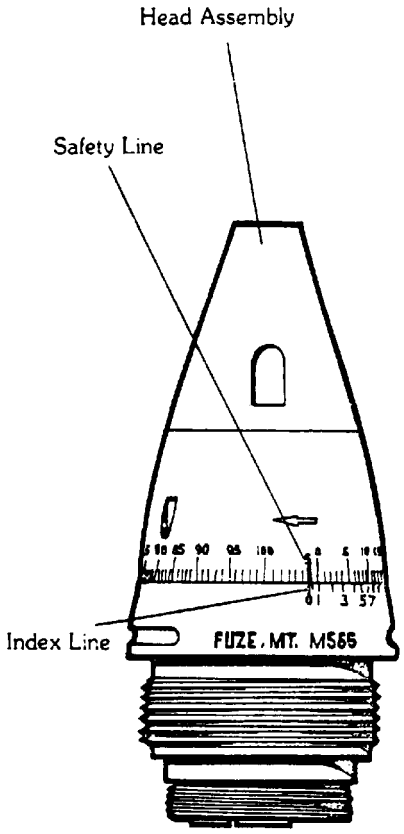
Safety pin should have angular crimp or diamond crimp to prevent removal

Safety pin pull ring present

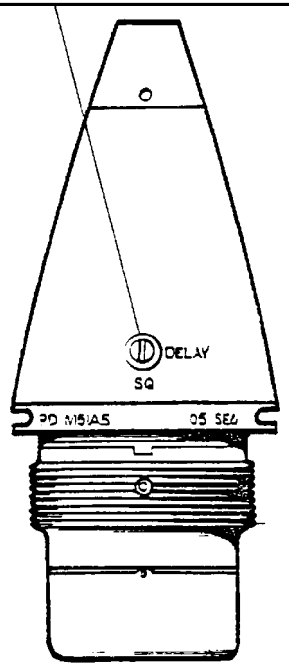
Safety clip is additional safety device

Process Unit Returns at an ASA

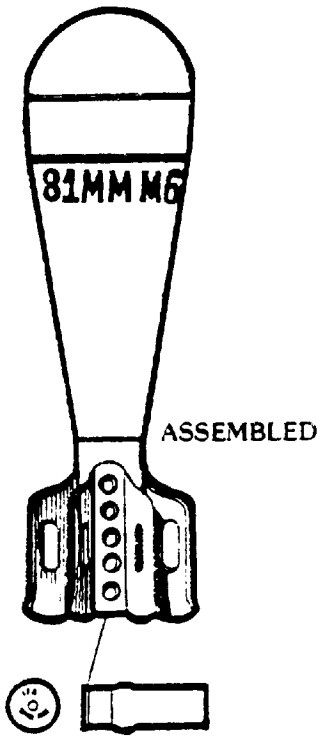
Fuzes and Ign… …ridges



Mechanical Time (MT)



Point Detonating (PD)



81MM Mortar Training

Proximity (VT)

Process Unit Returns at an ASA
Unserviceable Munitions

1. Repacked in suitable containers and marked as to contents.

2. Tag with DD Form 1575 (suspended tag material), or DD Form 1577 (unserviceable tag-material).

3. Attach to outside of box.

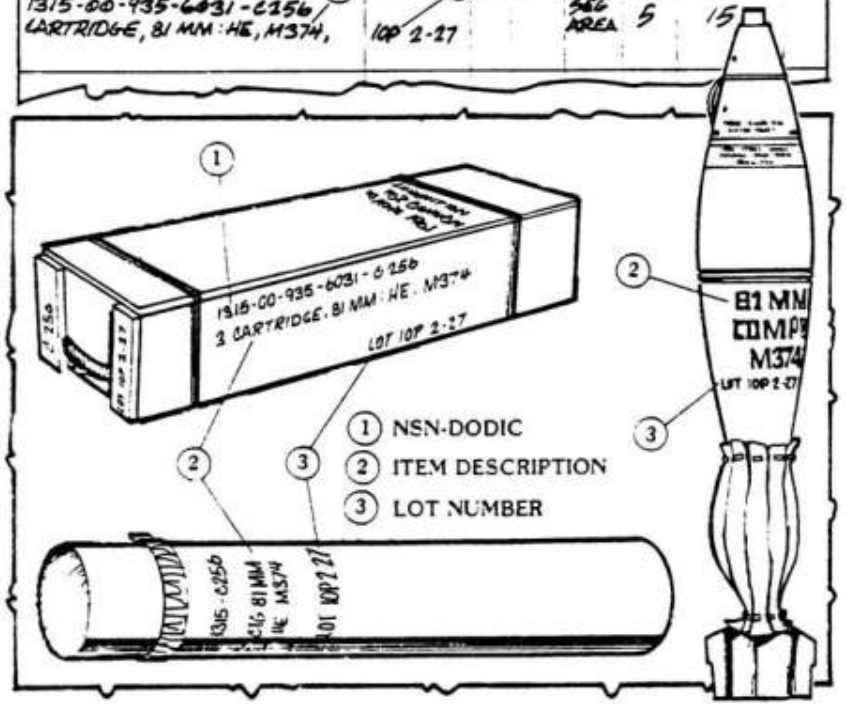
4. Transfer to unserviceable storage area.

5. Repack loose serviceable munitions in original containers

Process Unit Returns at an ASA
Items Match DA 3151-R

AMMUNITION STORES SLIP	AUTHORITY	DATE
	0153-0598	2 JUN80
FROM: 1st BN, 16th INF	NAME OF ACTIVITY: ASP #1	
TO: ASP #1	VEHICLE NO.: 47K120	
RECEIPT ☒ ISSUE ☐ OTHER (SPECIFY) ☐	DRIVER: SP4 William Jones	

NSN-DODIC NOMENCLATURE (1)	LOT NO. (3)	ACC	LOCATION FROM	LOCATION TO	PLTS / BXS	TOTAL ROUNDS	INIT
1315-00-935-6031-C256 (2) CARTRIDGE, 81 MM: HE, M374,	10P 2-27			SEC AREA	5	15	



If you find an item of ammunition that is not listed on the DA Form 3151-R, see your supervisor. He/she will advise you as to the markings required on the boxes, and the information to be added on the DA Form 3151-R.

Process Unit Returns at an ASA

Completion of DA 3151-R

NSN-DODIC NOMENCLATURE	LOT NO	ACC	LOCATION FROM	LOCATION TO	PLTS / BXS	TOTAL ROUNDS	INIT
1315-00-935-6031-C256 CARTRIDGE, 81 MM: HE, M374,	IOP 2-27			SEC AREA	5	15	

Example above, shows the unit turning in 15 rounds of the item.

During the inspection, 3 rounds were found unserviceable, and the ammunition

Inspector reclassified them as ACC "J"

NSN-DODIC NOMENCLATURE	LOT NO.	ACC	LOCATION FROM	LOCATION TO	PLTS / BXS	TOTAL ROUNDS	INIT
1315-00-935-6031-C256 CARTRIDGE, 81 MM: HE, M374,	IOP 2-27	A		SEC AREA	54	15 12	
	IOP 2-27	J			1	3	

To complete the transaction, the unit driver date and sign in the "Signature of the Issuing Checker" block. You date and sign the "Signature of Receiving Checker" block.

DATE	SIGNATURE OF ISSUING CHECKER	DATE	SIGNATURE OF RECEIVING CHECKER
2 JUN 80	William Jones	2 JUN 80	Robert Smith

DA FORM 3151 – R REPLACES DA FORM 3151, 1 JUL 66 WHICH MAY BE USED UNTIL EXHAUSTED

DRIVER SIGNS

YOU SIGN

Storage Compatibility Groups
TLO

Action:	Identify compatibility groups
Conditions:	In a contemporary operating environment (COE) given ammunition of different compatibility groups
Standards:	Be able to identify which compatibility groups ammunition falls in and which groups are safely compatible for storage together.

Storage Compatibility Groups
Codes

A B C D E F G H J K L N S

Ammunition and or explosives are considered "compatible" if they can be stored or transported together without significantly increasing the:

- Probability of an accident
- Magnitude of the effects of such an accident

Official compatibility codes found in the Joint Classification System

Storage Compatibility Groups
Storage Principles

1. Ideal storage generally is not feasible
2. Ammunition and explosives may not be stored together with dissimilar materials
3. Assigned to compatibility groups based on the similarity of characteristics, properties, and accident effects potential
4. ammunition and explosives may be mixed in storage, provided they are compatible
5. Ammunition and explosives in substandard or damaged packaging will be stored separately

Storage Compatibility Groups Storage Compatibility

Storage Compatibility Mixing Chart

Group	A	B	C	D	E	F	G	H	J	K	L	N	S
A	X	Z											
B	Z	X	Z	Z	Z	Z	Z					X	X
C		Z	X	X	X	Z	Z					X	X
D		Z	X	X	X	Z	Z					X	X
E		Z	X	X	X	Z	Z					X	X
F		Z	Z	Z	Z	X	Z					Z	X
G		Z	Z	Z	Z	Z	X					Z	X
H								X					X
J									X				X
K										Z			
L													
N		X	X	X	X	Z	Z					X	X
S		X	X	X	X	X	X	X	X			X	X

Storage Compatibility Groups
Storage Compatibility Mixing Chart (cont)

[1] "X" indicates that these groups may be combined in storage, otherwise, mixing is either prohibited or restricted according to note #2.

[2] "Z" indicates that, when warranted by operational considerations or magazine nonavailability and when safety is not sacrificed, logical mixed storage of limited quantities of some items of different groups may be approved. These relaxations involving mixed storage shall be approved by the MACOM and are not considered waivers. However, DA shall determine which items within Group K may be stored together and which must be stored separately. Group K requires not only separate storage from other groups but may also require separate storage within the group.

[3] Compliance with compatibility criteria is not required for mission essential or operationally necessary quantities of explosives in Class/division 1.4 or 6.1 (excluding toxic chemical munitions); up to 100 lbs. NEW Class/division 1.3; and up to 50 lbs. NEW Class/Division (04)1.2. See paragraph 5–1b for Q-D requirements and additional information concerning small quantities of explosives.

[4] Equal numbers of separately packaged components of complete rounds of any single type of ammunition may be stored together. When so stored, compatibility is that of the assembled round; for example, WP filler in Group H, HE filler in Groups D, E, or F, as appropriate.

[5] Ammunition items without explosives that contain substances properly belonging to another U.N. hazard class may be assigned to the same compatibility group as items containing explosives and the same substance, and be stored with them.

[6] DA may authorize ammunition designated "practice" by National Stock Number (NSN) and nomenclature to be stored with the fully loaded ammunition it simulates.

[7] The MACOM may authorize the mixing of compatibility groups, except items in Groups A, K, and L, in quantities not exceeding 1,000 lbs. NEW per storage site. This is independent of note #2 and the exception found in paragraph 4–4b.

[8] For purposes of mixing, all items must be packaged in approved storage/shipping containers. Items shall not be opened for purposes of issuing unpackaged munitions in storage locations. Outer containers may be opened in storage locations for inventorying; for removing munitions still inside an approved inner package in limited amounts, and for magazines storing only hazard division 1.4 items, unpacking, inspecting, and repacking the hazard division 1.4 ammunition.

[9] Articles of compatibility Groups B and F shall each be segregated in storage from articles of other compatibility groups by means which are effective in preventing propagation of those articles.

[10] If dissimilar HD 1.6, SCG N munitions are mixed together and have not been tested to ensure nonpropagation; the mixed munitions are considered to be HD 1.2, SCG D for purposes of transportation and storage. When mixing SCG N munitions with SCGs B through G, see chapter 5, paragraph 5-2f through 5-2i about changing quantity-distance (QD) class/divisions.

[11] For storage purposes, fuzes assigned to SCG D are also compatibile with fuzes assigned to SCG B.

Captured Ammunition
TLO

Action:	Conduct CEA Operations
Conditions:	CEA has been discovered and you have the ability to obtain all necessary equipment/resources to process and transport the CEA.
Standards:	Process and transport CEA if required to ASA IAW SOP and safe ammunition handling procedures.

Captured Ammunition
Conduct Deliberate Mission Planning

1. Ensure all key leaders are involved in the planning process.
2. Ensure soldiers are trained
3. EOD support
4. Coordinate transportation and packaging requirements
5. Medical
6. Linguist support.
7. Security support
8. Convoy route from CEA site to storage facility
9. Safe disposal area
10. Communications plan
11. Recon if possible
12. Conduct risk assessment
13. Catastrophic event plan.

Captured Ammunition
On-Site Execution

1. Establish a security perimeter.
2. Conduct communications check with higher command and medical support.
3. Safety briefing
4. EOD inspection
5. Trained personnel supervise the packaging and loading of the CEA
6. Inspect blocking, bracing and securing munitions
7. Conduct Convoy briefing
8. Notify higher headquarters

Captured Ammunition Cautions and Guidance

Improvised Explosive Devices (IED) and Unexploded Ordnance (UXO) are not classified a
EOD personnel on-site
SURVEY THE AREA!
Take booby trap precautions
Do not use any radio or broadcasting devices
Take precautions against static electricity
Wear Personal Protective Equipment (PPE)
Handle carefully
No smoking within 50 feet
Turn vehicle engines off
Fire extinguisher in vehicle
White phosphorus/incendiary munitions
Limit personnel
Excess vehicles located in a designated parking area
Medical and supervisory personnel
Beware of snakes and insects
Clear path for loading

Captured Ammunition Categorization

Extremely Unsafe Ammo:

- Handling and transportation is not recommended
- Conducted by or under the direct supervision of EOD
- Transportation requirements determined by EOD
- Do not transport items from other ammo transportation categories

Captured Ammunition Categorization (cont)

Unsafe Ammo:

- May be stored
- Route: gentle curves and be fairly smooth
- Limit speed
- Minimum crew
- Minimal handling
- Not be transported in tactical vehicles
- No personnel in cargo area
- Trailer prepared for transportation of CEA
- Pull with enclosed armored vehicle
- Do not use pivot or neutral steering
- Do not transport items from other ammo transportation categories
- Route selection

Captured Ammunition Categorization (cont)

SAFE Ammo:

- Evaluated by qualified ammunition inspectors prior to issue for use
- Tactical truck may be used to move the small arms ammunitions
- Do not transport items from other ammo transportation categories

Captured Ammunition Vehicle Selection

Prime Movers:

- Armored vehicles
- M113 family of vehicles (FOV)..
- The Bradley Fighting Vehicle (BFV) certified to safely tow only one trailer
- Field Artillery Ammunition Supply Vehicle (FAASV)may be used
- Do not use the Abrams or M88
- Do Not use any tactical wheeled Army motor vehicle

Captured Ammunition Preparation and Loading

Transport of Boxed CEA

Secure boxed CEA with web straps so it cannot move forward, backward, or side-to side. Keep in mind that when stopping, the force acting on the boxes will try to move them forward.

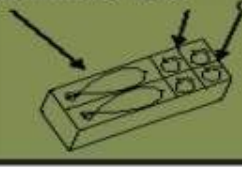
Transport of Unpacked

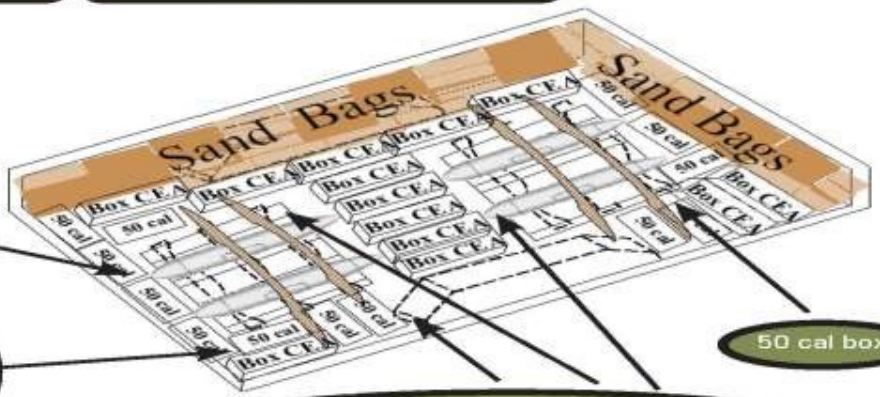
Cardboard dividers protect primers and fuzes

BOX

Sand-lined box

Cardboard dividers

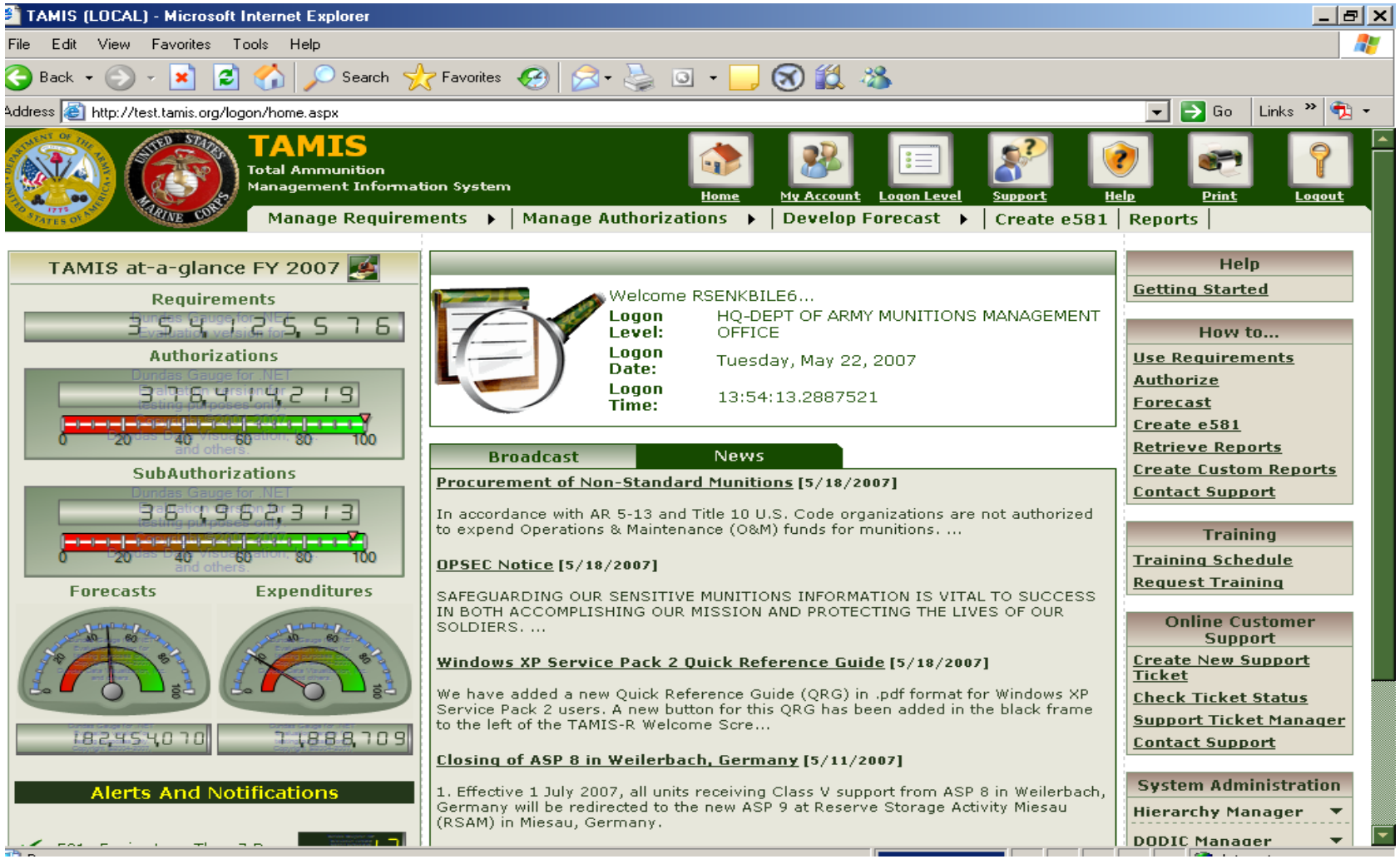



Sand Bags
Sand Bags
Box CEA
50 cal
Pallet upside down
Place large cylindrical object on upside down pallet – use web straps to secure item.
50 cal box
Place the object between the skids of the pallet.

Maintain Combat Load (CL)
TLO

Action:	Maintain a units Combat Load
Conditions:	In a contemporary operating environment (COE), identify procedures to properly maintain a units ammunition combat load.
Standards:	Properly identify and maintain ammunition combat load.

Maintain Combat Load (CL) Total Ammunition Management System (TAMIS)


TAMIS (LOCAL) - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Back Search Favorites
Address http://test.tamis.org/logon/home.aspx
Go Links
TAMIS
Total Ammunition Management Information System
Home
My Account
Logon Level
Support
Help
Print
Logout
Manage Requirements
Manage Authorizations
Develop Forecast
Create e581
Reports
TAMIS at-a-glance FY 2007
Requirements
3,541,255,576
Authorizations
376,414,219
SubAuthorizations
361,962,313
Forecasts
Expenditures
182,454,070
71,888,709
Alerts And Notifications
Welcome RSENKBILE6...
Logon Level: HQ-DEPT OF ARMY MUNITIONS MANAGEMENT OFFICE
Logon Date: Tuesday, May 22, 2007
Logon Time: 13:54:13.2887521
Broadcast
News
Procurement of Non-Standard Munitions [5/18/2007]
In accordance with AR 5-13 and Title 10 U.S. Code organizations are not authorized to expend Operations & Maintenance (O&M) funds for munitions. ...
OPSEC Notice [5/18/2007]
SAFEGUARDING OUR SENSITIVE MUNITIONS INFORMATION IS VITAL TO SUCCESS IN BOTH ACCOMPLISHING OUR MISSION AND PROTECTING THE LIVES OF OUR SOLDIERS. ...
Windows XP Service Pack 2 Quick Reference Guide [5/18/2007]
We have added a new Quick Reference Guide (QRG) in .pdf format for Windows XP Service Pack 2 users. A new button for this QRG has been added in the black frame to the left of the TAMIS-R Welcome Scre...
Closing of ASP 8 in Weilerbach, Germany [5/11/2007]
1. Effective 1 July 2007, all units receiving Class V support from ASP 8 in Weilerbach, Germany will be redirected to the new ASP 9 at Reserve Storage Activity Miesau (RSAM) in Miesau, Germany.
Help
Getting Started
How to...
Use Requirements
Authorize
Forecast
Create e581
Retrieve Reports
Create Custom Reports
Contact Support
Training
Training Schedule
Request Training
Online Customer Support
Create New Support Ticket
Check Ticket Status
Support Ticket Manager
Contact Support
System Administration
Hierarchy Manager
DODIC Manager

Maintain Combat Load (CL)
Types of Combat Load

To-Accompany-Troops (TAT)

- Can be carried by or accompanies the soldier
- Can be uploaded on a combat vehicle
- Can be uploaded on organic transportation

Non-TAT

- Cannot accompany the soldier.
- Cannot be loaded in or on unit combat vehicles.
- Cannot be loaded on unit transport vehicles.

Maintain Combat Load (CL)
Calculate Combat Load

- HQDA G3 generates standard factors to support the Army Combat Load requirements.

- Units modify calculation based on mission and weapons density changes.

- Using TAMIS (Requirements Module) the ACOMs, ASCCs & DRUs express their Combat Load requirements to HQDA G-3 for validation.

(TAMIS sub-module).

- Units auto-generate and store ABL e581 in TAMIS

(under development).

- Recall e581 & electronically submit.

Maintain Combat Load (CL)
Combat Load Basis

- Munitions DODICS/Quantities.
- War Requirements (WARREQ).
- TRADOC Munitions Combat Load Study.
- New munitions developments.
- Weapon Systems/Personnel.
- MTOE.
- Basis of Issue Plan (BOIP).
- Commander’s Input.

Maintain Combat Load (CL)
CL Accountability

CL not on-hand

- DA Form 581 prepared based on approved ABL.
- DA Form 581 document number posted to the property book.
- Listed on property book by DODIC.
- Property book shows ABL items as “on-request”.

CL on-hand

- Items on-hand posted to the property book.
- Will not be used for training.
- Items will be inventoried monthly.
- Any ABL not on-hand still handled IAW procedures above.

Maintain Combat Load (CL)
Required Supply Rate

Required Supply Rate - is defined as the amount of ammunition, expressed in rounds per weapon per day, estimated to be required to sustain operations of any designated forces without restriction for a specified period of time

Maintain Combat Load (CL)
Controlled Supply Rate

Controlled Supply Rate - is the rate of ammunition consumption that can be supported, considering supplies, transportation, and facilities available, for a given period.

Maintain Combat Load Controlled Supply Rate Terms

Stockage objective
Safety level
Balance on hand
Due ins
Due outs
Weapon density
Distribution time

Maintain Combat Load Controlled Supply Rate Calculations

Determine if a CSR is required using the formula

- If the balance on hand minus the due outs is greater than the safety level no CSR is required.
- If the balance on hand minus the due outs is less than the safety level a CSR is required.
- You can never issue out of the safety level without the Theater Commanders approval.

Determine the CSR using the formula

- The (balance on hand minus the safety level) divided by the (weapon density and number of days to next resupply and distribution in the theater).
- CSRs are always rounded down and expressed in rounds per weapon per day.

Maintain Combat Load Controlled Supply Rate Calculations

Balance on hand is 500,000 rounds, safety level is 200,000 rounds. Due outs for the next thirty days is 400,000 rounds. The weapon density is 100 weapons and no due ins are scheduled until 30 days from now.

BOH 500,000 minus D/OUTs 400,000 = 100,000
SL is 200,000 Yes a CSR is required.
CSR formula is:

$$\frac{\text{BOH 500,000 minus SL 200,000}}{\text{(WD 100 x DTR 30)}} = \frac{300{,}000}{3{,}000} = 100 \text{ CSR}$$